

**Table 6b. Estimated vaccination coverage with individual vaccines among children by 24 months of age, by selected geographic area - United States, National Immunization Survey, 1998\***

Geographic Area	≥ 3 DTP/DT <sup>†</sup> % (95%CI <sup>**</sup> )	≥ 4 DTP/DT <sup>§</sup> % (95%CI)	≥ 3 Poliovirus <sup>¶</sup> % (95%CI)	≥ 1 MCV <sup>**</sup> % (95%CI)	≥ 3 Hib <sup>††</sup> % (95%CI)	≥ 3 Hepatitis B <sup>§§</sup> % (95%CI)	≥ 1 Varicella <sup>¶¶</sup> % (95%CI)
AL-Jefferson Cnty	98.0 (±2.3)	85.3 (±5.2)	91.8 (±3.9)	94.3 (±3.5)	96.3 (±2.7)	83.9 (±5.2)	60.4 (±7.3)
AL-Rest of State	97.6 (±2.4)	84.7 (±5.1)	89.1 (±4.1)	92.9 (±3.3)	94.5 (±3.1)	86.0 (±4.7)	51.2 (±6.8)
AZ-Maricopa Cnty	92.4 (±4.3)	79.0 (±6.5)	87.8 (±5.2)	88.2 (±5.0)	90.1 (±4.8)	81.7 (±6.2)	48.0 (±7.8)
AZ-Rest of State	89.6 (±4.3)	72.0 (±7.3)	85.6 (±5.2)	84.9 (±5.3)	88.2 (±4.5)	77.1 (±6.5)	43.7 (±7.2)
CA-Los Angeles	92.8 (±3.9)	78.1 (±6.2)	88.1 (±4.9)	90.3 (±4.5)	92.5 (±3.9)	84.2 (±5.5)	52.2 (±7.5)
CA-Rest of State	92.3 (±4.2)	78.9 (±6.1)	85.3 (±5.4)	89.2 (±4.7)	89.0 (±4.7)	83.8 (±5.5)	50.2 (±7.3)
CA-San Diego Cnty	92.4 (±3.7)	79.9 (±5.6)	85.2 (±4.9)	94.1 (±3.2)	89.2 (±4.4)	76.2 (±6.1)	56.3 (±7.0)
CA-Santa Clara	96.5 (±2.5)	87.8 (±4.8)	93.1 (±3.6)	91.6 (±4.6)	94.8 (±3.2)	84.9 (±5.6)	55.0 (±7.6)
Dist of Columbia	94.3 (±4.0)	73.2 (±7.3)	88.1 (±5.2)	91.8 (±4.8)	91.0 (±4.7)	79.2 (±6.5)	53.9 (±7.9)
FL-Dade County	91.7 (±4.9)	73.2 (±6.6)	83.8 (±5.7)	92.0 (±3.7)	89.5 (±5.2)	81.5 (±5.9)	25.1 (±5.8)
FL-Duval County	97.2 (±2.8)	79.8 (±6.6)	90.3 (±4.8)	92.0 (±4.3)	94.4 (±3.7)	89.6 (±5.0)	39.1 (±7.9)
FL-Rest of State	94.1 (±3.9)	82.1 (±6.0)	89.5 (±4.9)	91.7 (±4.2)	92.5 (±4.2)	87.8 (±5.1)	32.6 (±7.1)
GA-Fulton/Dekalb	95.8 (±5.4)	75.1 (±7.8)	88.1 (±6.7)	89.1 (±6.4)	92.0 (±6.4)	86.9 (±6.4)	49.2 (±8.2)
GA-Rest of State	95.9 (±2.8)	84.8 (±4.9)	91.2 (±3.9)	92.5 (±3.6)	95.4 (±2.9)	88.3 (±4.4)	36.1 (±6.5)
IL-City Chicago	87.8 (±6.3)	69.7 (±8.0)	83.6 (±6.7)	85.7 (±6.2)	84.8 (±6.3)	75.2 (±7.5)	22.5 (±6.4)
IL-Rest of State	95.5 (±4.3)	85.7 (±6.2)	92.0 (±4.8)	92.2 (±4.8)	94.0 (±4.5)	92.1 (±4.1)	23.7 (±5.8)
IN-Marion County	94.4 (±3.1)	78.8 (±5.8)	86.2 (±4.6)	87.5 (±4.4)	92.2 (±3.6)	81.1 (±5.2)	27.4 (±6.1)

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Geographic Area	$\geq 3$ DTP/DT <sup>†</sup> % (95%CI <sup>**</sup> )	$\geq 4$ DTP/DT <sup>§</sup> % (95%CI)	$\geq 3$ Poliovirus <sup>¶</sup> % (95%CI)	$\geq 1$ MCV <sup>**</sup> % (95%CI)	$\geq 3$ Hib <sup>††</sup> % (95%CI)	$\geq 3$ Hepatitis B <sup>§§</sup> % (95%CI)	$\geq 1$ Varicella <sup>¶¶</sup> % (95%CI)
IN-Rest of State	92.5 ( $\pm 4.4$ )	76.7 ( $\pm 6.3$ )	85.7 ( $\pm 5.5$ )	90.5 ( $\pm 4.3$ )	89.7 ( $\pm 5.0$ )	82.1 ( $\pm 5.8$ )	24.8 ( $\pm 6.0$ )
LA-Orleans Parish	93.1 ( $\pm 4.0$ )	79.7 ( $\pm 6.1$ )	89.5 ( $\pm 4.8$ )	87.4 ( $\pm 5.2$ )	91.3 ( $\pm 4.4$ )	80.3 ( $\pm 5.9$ )	31.5 ( $\pm 6.9$ )
LA-Rest of State	94.3 ( $\pm 3.7$ )	76.5 ( $\pm 6.1$ )	90.1 ( $\pm 4.6$ )	87.0 ( $\pm 5.1$ )	93.9 ( $\pm 3.8$ )	83.8 ( $\pm 5.4$ )	32.3 ( $\pm 6.7$ )
MA-City of Boston	99.6 ( $\pm 0.7$ )	88.1 ( $\pm 4.6$ )	94.4 ( $\pm 3.2$ )	98.8 ( $\pm 1.3$ )	97.9 ( $\pm 1.7$ )	90.0 ( $\pm 4.3$ )	39.1 ( $\pm 7.2$ )
MA-Rest of State	99.7 ( $\pm 0.6$ )	92.2 ( $\pm 3.5$ )	93.5 ( $\pm 3.3$ )	96.7 ( $\pm 2.4$ )	98.1 ( $\pm 1.8$ )	87.7 ( $\pm 4.3$ )	45.6 ( $\pm 6.7$ )
MD-Baltimore City	97.3 ( $\pm 2.6$ )	81.9 ( $\pm 5.9$ )	93.0 ( $\pm 3.8$ )	90.0 ( $\pm 4.8$ )	96.9 ( $\pm 2.7$ )	83.0 ( $\pm 6.5$ )	41.1 ( $\pm 8.1$ )
MD-Rest of State	94.6 ( $\pm 3.7$ )	79.8 ( $\pm 5.7$ )	89.5 ( $\pm 4.5$ )	88.1 ( $\pm 4.9$ )	91.4 ( $\pm 4.4$ )	86.3 ( $\pm 5.2$ )	47.8 ( $\pm 6.8$ )
MI-Detroit	88.3 ( $\pm 5.5$ )	73.2 ( $\pm 7.2$ )	79.4 ( $\pm 6.8$ )	82.8 ( $\pm 5.9$ )	82.9 ( $\pm 6.2$ )	77.3 ( $\pm 6.8$ )	22.0 ( $\pm 6.4$ )
MI-Rest of State	94.7 ( $\pm 3.5$ )	81.3 ( $\pm 5.7$ )	90.1 ( $\pm 4.4$ )	88.2 ( $\pm 5.0$ )	92.9 ( $\pm 4.0$ )	88.5 ( $\pm 4.6$ )	22.5 ( $\pm 5.4$ )
NJ-City of Newark	93.0 ( $\pm 5.1$ )	61.8 ( $\pm 9.5$ )	72.0 ( $\pm 9.3$ )	80.3 ( $\pm 9.4$ )	89.7 ( $\pm 5.9$ )	88.2 ( $\pm 5.4$ )	15.3 ( $\pm 5.9$ )
NJ-Rest of State	96.9 ( $\pm 2.7$ )	83.0 ( $\pm 6.9$ )	94.7 ( $\pm 3.5$ )	95.3 ( $\pm 2.9$ )	96.0 ( $\pm 2.9$ )	90.0 ( $\pm 4.4$ )	48.2 ( $\pm 8.0$ )
NY-5 Counties	96.1 ( $\pm 3.3$ )	79.6 ( $\pm 6.6$ )	90.2 ( $\pm 4.7$ )	95.9 ( $\pm 3.2$ )	90.7 ( $\pm 5.1$ )	89.6 ( $\pm 5.1$ )	46.2 ( $\pm 8.2$ )
NY-Rest of State	99.0 ( $\pm 2.0$ )	88.5 ( $\pm 5.2$ )	91.8 ( $\pm 4.6$ )	93.1 ( $\pm 4.0$ )	97.0 ( $\pm 3.0$ )	91.5 ( $\pm 4.7$ )	40.7 ( $\pm 7.5$ )
OH-Cuyahoga Cnty	93.1 ( $\pm 4.2$ )	79.2 ( $\pm 6.4$ )	88.0 ( $\pm 4.9$ )	92.1 ( $\pm 4.4$ )	89.3 ( $\pm 4.8$ )	88.4 ( $\pm 4.9$ )	39.9 ( $\pm 7.4$ )
OH-Franklin Cnty	93.7 ( $\pm 4.0$ )	84.8 ( $\pm 5.7$ )	86.5 ( $\pm 5.9$ )	91.6 ( $\pm 4.6$ )	93.4 ( $\pm 4.1$ )	82.6 ( $\pm 6.3$ )	40.1 ( $\pm 7.8$ )
OH-Rest of State	95.6 ( $\pm 2.7$ )	76.2 ( $\pm 6.1$ )	90.5 ( $\pm 3.9$ )	90.4 ( $\pm 4.4$ )	95.7 ( $\pm 2.7$ )	86.6 ( $\pm 4.7$ )	32.8 ( $\pm 6.3$ )
PA-Philadelphia	96.6 ( $\pm 2.8$ )	86.8 ( $\pm 5.3$ )	90.4 ( $\pm 4.4$ )	93.7 ( $\pm 4.0$ )	94.7 ( $\pm 3.3$ )	81.2 ( $\pm 6.1$ )	68.4 ( $\pm 7.5$ )

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Geographic Area	$\geq 3$ DTP/DT <sup>†</sup> % (95%CI <sup>**</sup> )	$\geq 4$ DTP/DT <sup>§</sup> % (95%CI)	$\geq 3$ Poliovirus <sup>¶</sup> % (95%CI)	$\geq 1$ MCV <sup>**</sup> % (95%CI)	$\geq 3$ Hib <sup>††</sup> % (95%CI)	$\geq 3$ Hepatitis B <sup>§§</sup> % (95%CI)	$\geq 1$ Varicella <sup>¶¶</sup> % (95%CI)
PA-Rest of State	98.5 ( $\pm 1.7$ )	87.9 ( $\pm 4.3$ )	93.3 ( $\pm 3.3$ )	93.7 ( $\pm 3.3$ )	97.7 ( $\pm 2.1$ )	89.7 ( $\pm 3.9$ )	50.7 ( $\pm 6.4$ )
TN-Davidson Cnty	94.7 ( $\pm 3.6$ )	83.7 ( $\pm 5.6$ )	89.2 ( $\pm 4.9$ )	94.7 ( $\pm 3.4$ )	92.0 ( $\pm 4.2$ )	75.9 ( $\pm 6.3$ )	53.0 ( $\pm 7.4$ )
TN-Rest of State	95.9 ( $\pm 2.6$ )	82.3 ( $\pm 5.4$ )	93.1 ( $\pm 3.3$ )	92.5 ( $\pm 3.5$ )	93.5 ( $\pm 3.8$ )	83.5 ( $\pm 5.1$ )	39.6 ( $\pm 6.6$ )
TN-Shelby County	95.4 ( $\pm 2.9$ )	69.9 ( $\pm 7.1$ )	90.2 ( $\pm 4.5$ )	84.3 ( $\pm 5.2$ )	91.6 ( $\pm 4.1$ )	88.5 ( $\pm 4.5$ )	33.7 ( $\pm 7.0$ )
TX-Bexar County	93.0 ( $\pm 4.3$ )	80.9 ( $\pm 6.2$ )	88.2 ( $\pm 5.1$ )	92.8 ( $\pm 4.1$ )	90.9 ( $\pm 4.7$ )	90.6 ( $\pm 4.4$ )	39.8 ( $\pm 7.4$ )
TX-City Houston	86.6 ( $\pm 6.1$ )	61.0 ( $\pm 8.3$ )	79.0 ( $\pm 7.0$ )	83.0 ( $\pm 6.7$ )	83.4 ( $\pm 6.5$ )	65.0 ( $\pm 8.2$ )	35.4 ( $\pm 7.9$ )
TX-Dallas County	91.7 ( $\pm 4.9$ )	71.5 ( $\pm 7.6$ )	85.3 ( $\pm 6.2$ )	86.8 ( $\pm 5.5$ )	89.2 ( $\pm 5.3$ )	72.9 ( $\pm 7.8$ )	35.3 ( $\pm 8.1$ )
TX-El Paso Cnty	94.7 ( $\pm 3.2$ )	79.8 ( $\pm 5.6$ )	92.6 ( $\pm 3.7$ )	89.9 ( $\pm 4.2$ )	92.6 ( $\pm 3.7$ )	77.8 ( $\pm 5.9$ )	36.4 ( $\pm 6.7$ )
TX-Rest of State	92.2 ( $\pm 4.0$ )	77.0 ( $\pm 6.2$ )	86.6 ( $\pm 4.9$ )	92.1 ( $\pm 3.9$ )	90.1 ( $\pm 4.4$ )	77.5 ( $\pm 6.1$ )	40.2 ( $\pm 7.2$ )
WA-King County	95.1 ( $\pm 3.7$ )	82.8 ( $\pm 6.2$ )	92.1 ( $\pm 4.2$ )	93.6 ( $\pm 3.9$ )	93.1 ( $\pm 4.0$ )	74.5 ( $\pm 6.6$ )	22.2 ( $\pm 6.2$ )
WA-Rest of State	95.0 ( $\pm 3.0$ )	79.9 ( $\pm 5.7$ )	88.9 ( $\pm 4.5$ )	86.4 ( $\pm 4.9$ )	93.2 ( $\pm 3.7$ )	79.8 ( $\pm 5.5$ )	15.5 ( $\pm 4.6$ )
WI-Milwaukee Cnty	93.6 ( $\pm 3.4$ )	77.0 ( $\pm 6.0$ )	88.2 ( $\pm 4.4$ )	88.1 ( $\pm 4.6$ )	90.6 ( $\pm 4.1$ )	74.4 ( $\pm 6.2$ )	28.9 ( $\pm 6.5$ )
WI-Rest of State	97.6 ( $\pm 1.9$ )	83.2 ( $\pm 4.9$ )	92.2 ( $\pm 3.5$ )	91.9 ( $\pm 3.5$ )	95.7 ( $\pm 2.5$ )	85.8 ( $\pm 4.5$ )	30.3 ( $\pm 5.8$ )

\* Children in this period were born between February 1995 and May 1997.

† Three or more doses of diphtheria and tetanus toxoids and pertussis vaccine/diphtheria and tetanus toxoids (DTP/DT).

§ Four or more doses of diphtheria and tetanus toxoids and pertussis vaccine/diphtheria and tetanus toxoids (DTP/DT).

¶ Three or more doses of poliovirus vaccine.

\*\* One or more doses of measles-containing vaccine.

†† Three or more doses of *Haemophilus influenzae* type b (Hib) vaccine.

§§ Three or more doses of hepatitis B vaccine.

¶¶ One or more doses of varicella vaccine.

\*\*\* Confidence interval.